

PHOTONICS SHOWCASE



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[Quad Photodiodes and Photoreceivers](#)

From: Discovery Semiconductors Inc.

Discovery Semiconductors' patented Shortwave Infrared (SWIR) quadrant photodiode technology not only provides resilience to radiation, but also leads to ultra-low noise performance and low crosstalk. The TIA design lends itself to customization as per end user's requirements without any impact on radiation hardness. Applications include Gravitational Wave Sensing, Satcom Links, and Position Sensing. Extensive reliability and radiation testing done.

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[Design. Prototype. Scale.](#)

From: Fresnel Technologies Inc.

FTI provides American-made diamond turned or molded polymer optics, including micro-optics, aspheres, freeforms, and PIR in the UV, VIS, and IR range. Request your ruler kit and book a meeting at Photonics West to explore which optical approach may best suit your project. FTI's optical expertise, extensive catalog, and custom capabilities can help ensure your project's success.

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[A Light Source for the Quantum Age](#)

From: Eblana Photonics Ltd.

The future of quantum is photonics. From enabling secure global communications to building the next generation of sensors and processors, Eblana Photonics powers the quantum frontier with reliable, high-precision lasers and gain chips built for real-world deployment. At Eblana, we work alongside innovators to tailor optical solutions for complex quantum architectures, spanning research to scalable product development.

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[New Ocean NR 1.7 & 2.2 Spectrometers](#)

From: Ocean Optics

The Ocean NR Series is a high-resolution NIR spectrometer offering 900–2120 nm range, compact design, and high signal-to-noise performance. Its interchangeable slit, TEC cooling, and High Gain Mode deliver enhanced sensitivity and flexibility — ideal for precise, real-time analysis in process control, food, pharma, and materials applications.

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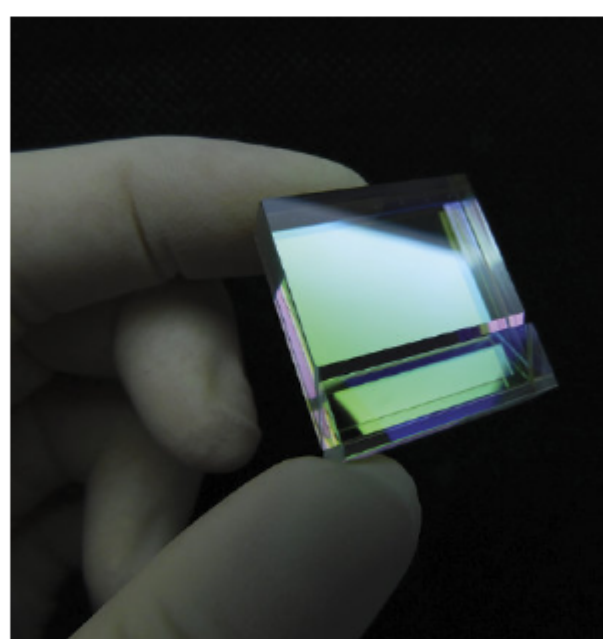
[The VIPA: A Resolution Revolution](#)

From: LightMachinery Inc.

To resolve spectral features at 0.5 picometers, traditional echelle spectrometers need to be massive — four to five times larger than the HyperFine Spectrometer from LightMachinery. VIPAs pack high angular dispersion into an ultra-compact form, enabling LightMachinery's HyperFine Spectrometers to deliver echelle-level resolution in a fraction of the footprint (and cost) — with higher throughput and faster acquisition.

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[IR Filters for Thermal Imaging](#)

From: Spectrogon US Inc.

Spectrogon manufactures infrared filters and windows with high transmission, high rejection outside the passband, while maintaining excellent coating uniformity for thermal imaging and gas detection applications such as cryogenically cooled IR detectors and uncooled microbolometers. Our filters and windows range in dimension from Ø6.0 to Ø200.0 mm, with dicing capabilities down to as small as 1.0 × 1.0 mm.

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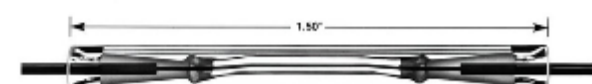
[Norland Optical Splice](#)

From: Norland Products Inc.

Norland's optical splice provides a high-performance connection for optic fibers in a unique one-piece design.

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